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UUU	UUU	EEEEEEEEEEEE	!!!!!!!!!!!!!!!!	PPPPPPPPPPP	SSSSSSSSSSS	YYY	YYY
UUU	UUU	EEEEEEEEEEEEE		PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	SSSSSSSSSSS	YYY	YYY
UUU	UUU	EEEEEEEEEEEE	111111111111111111111111111111111111111	PPTPPPPPPPPP	SSSSSSSSSSSS	YYY	YYY
UUU	UUU	EEE	111	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	III	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	111	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	TTT	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	TTT	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	TTT	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEEEEEEEEE	TTT	PPPPPPPPPPP	SSSSSSSS	YYY	
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UUU	UUU	EEE	iii	PPP	\$\$\$	YYY	
		EEEEEEEEEEEEE					
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		\$					

SA

SATSSS50 Table of contents	SATS SYSTEM SERVICE TESTS \$ASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00
(1) 56 (1) 116 (1) 150 (1) 221 (1) 297 (1) 390 (1) 621 (1) 679	DECLARATIONS CONDITION TABLES TM_SETUP, TM_CLEANUP CONDITION SUBROUTINES - SETUP AND CLEANUP FORM_CONDS VERIFY VFY_CLEANUP BUICD_CLUST SUBROUTINE

SAT

SATSSS50 SATS SYSTEM SERVICE TESTS SASCEFC (SUCC S.C.) .TITLE

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FACILITY:

SYSTST (SATS SYSTEM SERVICE TESTS)

ABSTRACT:

THIS MODULE CONTAINS SUBROUTINES WHICH, WHEN LINKED WITH SUCCOMMON.OBJ, FORM TEST MODULE SATSSS50 TO TEST SUCCESSFUL OPERATION OF THE \$ASCEFC SYSTEM SERVICE. THE SERVICE IS INVOKED UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY CHECKING FOR AN SS\$ NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS AND EXPECTED FUNCTIONALITY PERFORMED.

ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE, DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.

AUTHOR: THOMAS L. CAFARELLA,

CREATION DATE: DEC, 1977

MODIFIED BY:

VERSION 1.5 : 25-MAY-79

LDJ 10/11/79 fixed bug caused by DIB\$K\_LENGTH change ACG052.RNO mem

18

```
SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 DECLARATIONS 5-SEP-1984 04:32:01 [UETPSY.SRC]SATSSS50.MAR;1
                                                                                                                                                                                                                                Page
                                      PSECT RODATA, RD, NOWRT, NOEXE, LCNG
TEST_MOD_NAME:: STRING C, <SATS$550> ; TEST MODULE
TEST_MOD_NAME_D: STRING I, <SATS$50> ; TEST MODULE
MSG1_INP_CTL: STRING I, < SSASC! 4ZW: CONDITIONS:>
  00000000
0000
00009
0019
0039
0051
0065
0065
0080
0080
0086
0088
0000
00055
                               TEST MODULE NAME DESCRIPTOR
                                                                                                                                             FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
                                                                              STRING I. < *SSASC!4ZW: !AS>
                                       MSG3_ERR_CTL::
                                                                                                 I, < *SSASC!4ZW: !AS>
; FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR

I, <SATSSS50_CRE> ; CREATED PROCESS NAME

I, <SATSSS50_CLA> ; CLUSTER A NAME

I, <SATSSS50_CLB> ; CLUSTER B NAME

I, <SYSTST$RES:SATSUT04.EXE> ; IMAGE NAME FOR CREATED PROC

CPULM, 0

BYTLM, 512 ; BYTE LIMIT FOR BUFFERED I/O

FILLM, 2

FILLM, 2

PGFLQUOTA, 10 ; PAGING FILE QUOTA

PRCLM, 2

TOELM, 3

TIMER QUEUE ENTRY QUOTA
                                       CREPRN:
                                       CLUS NAME A:
CLUS NAME B:
IMAGNAM:
                                                                               STRING
                                                                               STRING
                                                                               STRING
                                                                                                 CPULM, 0
BYTLM, 512
FILLM, 2
PGFLQUOTA, 10
PRCLM, 2
TQELM, 3
                                       QUOTALIST:
                                                                               SQUOTA
                                                                               SQUOTA
                                                                               SQUOTA
                                                                               SQUOTA
SQUOTA
                                                                                                                                             TIMER QUEUE ENTRY QUOTA
DEFINES END OF LIST
                                                                               SQUOTA
                                                                               SQUOTA
                                                                                                  LISTEND
```

SATSSS50 V04-000

SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 DECLARATIONS 5-SEP-1984 04:32:01 EUETPSY.SRCJSATSSS50.MAR;1 00000000 00000000 0008 00000000 0008 0000 00000074 0000 101 .PSI
102 PRIVMASK:
103 MBXCHAN:
104 MBXCHANINFO:
105
106
107
108 MBXUNIT:
109 MBXBUFF:
110 ASCTOT:
111 OTHER EFN:
112 CLUS MASK:
113 CLUS STATE:
114 FLAGS: .PSECT RWDATA, RD, WRT, NOEXE, LONG ADDR OF PRIVILEGE MASK (IN PHD) CHAN NO. FOR MAILBOX FOR CREATED PROCESS CHANNEL INFO RETURNED BY GETCHN .BLKQ .BLKL MBXCHANINFO: 00000074 00000014 00000088 0000008C .LONG DIB\$K\_LENGTH .ADDRESS .+4 .BLKB DIB\$K\_LENGTH 0010 0014 0088 008C 010C SAVE AREA FOR MAILBOX UNIT NUMBER
MAILBOX BUFFER FOR CREATED PROCESS
NO. OF ASCEFC'S (REF COUNT) FOR CLUSTER A
SAVE AREA FOR "OTHER THAN SUBJECT" EFN
CLUSTER MASK : USED TO SET CLUSTER A
STATE OF CLUSTER A
GEN. PURP. FLAGS; BIT DEFINITIONS ABOVE .BLKL STRING 0,120 0000010D 00000111 00000115 00000119 .BLKB 010D 0111 0115 0119 .BLKL .BLKL .BLKL .BYTE 0

SATSSS50 V04-000

```
SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 CONDITION TABLES 5-SEP-1984 04:32:01
                                                                                                              VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS50.MAR;1
                                                                                                                                                                      (1)
                                                                                                                                                            Page
                                               .SBTTL CONDITION TABLES
                                               **** CONDITION TABLES FOR ASCEFC SYSTEM SERVICE ****
                                                            1,LONG, <PERM>,-
<PERMANENT>,-
                                               COND
                                                                <TEMPORARY>,-
00000000
                                                                                                   : PERMANENT CLUSTER
: TEMPORARY CLUSTER
                                                                   . LONG
                                                            2, NOTARG, <PRE-EXISTING ASSOCIATION>, -
<EVENT FLAG GROUP NOT ALREADY ASSOCIATED>, -
<EVENT FLAG GROUP ALREADY ASSOCIATED TO SUBJECT CLUSTER>, -
<EVENT FLAG GROUP ALREADY ASSOCIATED TO NON-SUBJECT CLUSTER>, -
                                               COND
                                               COND
                                                            3.NOTARG. < REFERENCE COUNT FOR SUBJECT CLUSTER > .-
                                                               <ZERO>,-
                                                               <ONE>,-
<GREATER THAN ONE (TWO)>,-
02 01 00
                                                                   .BYTE
                                                                                      0.1.2
                                                            4.LONG.<EFN>,-
<EVENT FLAGS 64-95 (EV FLAG GROUP 2)>,-
<EVENT FLAGS 96-127 (EV FLAG GROUP 3)>,-
                                               COND
00000040
                                                                                                   : EVENT FLAG GROUP 2
: EVENT FLAG GROUP 3
                                                                   . LONG
                           144
145
146
147
148
                                                                   .LONG
                                               COND
                                                            5, NULL
         00000000
                                                .PSECT SATSSS50,RD,WRT,EXE
```

```
SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 TM_SETUP, TM_CLEANUP 5-SEP-1984 04:32:01 [UETPSY.SRC]SATSSS50.MAR;1
SATSSS50
V04-000
                                                                                             .SBTTL TM_SETUP, TM_CLEANUP
                                                                                  FUNCTIONAL DESCRIPTION:
                                                                                   TM SETUP AND TM CLEANUP ARE CALLED TO PERFORM REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF
                                                             TEST MODULE EXECUTION.
                                                                                   CALLING SEQUENCE:
                                                                                            BSBW TM_SETUP
                                                                                                                       BSBW TM_CLEANUP
                                                                         163
164
165
166
167
168
170
171
173
174
                                                                                   INPUT PARAMETERS:
                                                                                            NONE
                                                                                   IMPLICIT INPUTS:
                                                                                            NONE
                                                                                   OUTPUT PARAMETERS:
                                                                                            NONE
                                                                                   IMPLICIT OUTPUTS:
                                                                                            TM_SETUP: COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED; ALL PRIVILEGES ACQUIRED.
                                                                                   COMPLETION CODES:
                                                                                            EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
                                                                        182
183
184
186
188
190
191
193
196
199
199
199
199
                                                                                  SIDE EFFECTS:
                                                                                            SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.
                                                                               TM_SETUP::
                                                      D44440E0
                                                                                                                                                    INITIALIZE
                                                                                                                                                     .. CONDITION
                                                                                                                                                    .... TABLE
                                                             0006
0008
0000
0000
0018
0020
                                                                                             CLRL
                                                                                                                                                                    REGISTERS
                                                                                                         MOD_MSG_PRINT ; PRINT TEST MODULE BEGIN MSG
TEST_MOD_SUCC.TMD_ADDR ; ASSUME END MSG WILL SHOW SUCCESS
#SUCCESS,#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
                                                                                             BSBW
        00000000°EF
                                                                                             MOVAL
                                                                                             INSV
                                                                                                         TO.5$, KRNL : KERNEL MODE TO ACCESS PHD GET PROCESS HEADER ADDRESS PHD$Q PRIVMSK(R9), PRIVMASK ; GET PRIV MASK ADDRESS FROM, 5$ : BACK TO USER MODE GET ALL PRIVILEGES
                                                                                             MODE
                       59 00000000°9F
00000000°EF 69
                                                      DO
                                                                                             MOVL
                                                                                             MOVAL
                                                                                             MODE
                                                                                             PRIV
```

SA

05

016E

RSB

```
SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 CONDITION SUBROUTINES - SETUP AND CLEANU 5-SEP-1984 04:32:01
                                                                                                                           VAX/VMS Macro V04-00
LUETPSY.SRCJSATSSS50.MAR;1
                                               .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
          : FUNCTIONAL DESCRIPTION:
                       CONDX AND CONDX CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE CONDITION X TABLE IS INCLUDED IN THE CONDX SUBROUTINE AND CLEANED UP, IF NECESSARY, IN THE CONDX CLEANUP SUBROUTINE. THIS INCLUDES, ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
                                   CALLING SEQUENCE:
                                               BSBW CONDX BSBW CONDX_CLEANUP WHERE X = 1,2,3,4,5
                                   INPUT PARAMETERS:
                                               CONFLICT = 0
          016B
          016B
                                   IMPLICIT INPUTS:
          016B
                                               R2.3.4.5.6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
          016B
          016B
          016B
          016B
                                   OUTPUT PARAMETERS:
          016B
          016B
                                               CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.
          016B
          016B
                                   IMPLICIT OUTPUTS:
          016B
          016B
                                               R2,3,4,5,6 PRESERVED
          016B
          COMPLETION CODES:
                                               NONE
                                   SIDE EFFECTS:
                                               NONE
                               COND1::
  05
                                                                                                              : RETURN TO MAIN ROUTINE
                               COND1_CLEANUP::
  05
                                               RSB
                                                                                                              : RETURN TO MAIN ROUTINE
                               COND2::
  05
                                               RSB
                                                                                                              ; RETURN TO MAIN ROUTINE
                               COND2_CLEANUP::
```

; RETURN TO MAIN ROUTINE

SA

WR

PS

--

SA RO RW SA

In Co Pa Sy Pa Sy

(1)

-\$ -\$ 70 77 Th

MA

Ma

--

SA

PS

Th 52 Th 74 51

```
SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 FORM_CONDS S-SEP-1984 04:32:01 [UETPSY.SRC]SATSSS50.MAR;1
                                        .SBTTL FORM_CONDS
                             FUNCTIONAL DESCRIPTION:
                                THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
                              CALLING SEQUENCE:
                                        BSBW FORM_CONDS
                              INPUT PARAMETERS:
                                        NONE
                              IMPLICIT INPUTS:
                                       R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX_T - TITLE TEXT FOR CONDX TABLE

CONDX_TAB - ELEMENT TEXT FOR CONDX TABLE

CONDX_C - CONTEXT OF THE CONDX TABLE

CONDX_E - DATA ELEMENTS OF THE CONDX TABLE
                              OUTPUT PARAMETERS:
                                        NONE
                              IMPLICIT OUTPUTS:
                                        NONE
                              COMPLETION CODES:
                                        NONE
                              SIDE EFFECTS:
                                        NONE
```

```
FORM_CONDS::
                                                    $FAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
; FORMAT COND
                                                                                      FORMAT CONDITIONS HEADER MSG
                                                            OUTPUT_MSG
#COND1_C,#NULL
10$
                             30
91
12
31
                                                                                      IS CONDITION 1 NULL ?
                                                     CMPB
                                                     BNEQU
                                                                                      NO -- CONTINUE
                                                            FORM_CONDSX
                       00D7
                                                                                      YES -- SUBROUTINE IS FINISHED
                                                     BRW
                                            10$:
                                                    EF 0000011A'EF
00000120'EF42
00000000'EF 04
00000000'EF
                             DE 00 90
                                  0106
```

```
SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 FORM_CONDS 5-SEP-1984 04:32:01 [UETPSY.SRC]SATSSS50.MAR;1
SATSSS50
V04-000
                                                                                                             FORMAT AND WRITE CONDITION 1 MSG
IS CONDITION 2 NULL ?
NO -- CONTINUE
                               FE1B'
                                         30
91
12
31
                                                                               WRITE_MSG2
#CONDZ_C,#NULL
20$
FORM_CONDSX
                                             01E2
01E8
01EA
01ED
                                                                      CMPB
                                                                      BNEQU
                                                                                                             : YES -- SUBROUTINE IS FINISHED
                                00A2
                                                      357
358
20$:
359
360
361
363
363
365
365
365
367
368
370
                                                                      BRW
                                                                              00000144'EF
0000015E'EF43
00000000'EF 00
      00000000'EF
                                                                      MOVAL
    00000000'EF
                                                                      MOVL
                                                                      MOVB
                                                                     MOV VAL
                                         30
91
12
31
                                FDF2'
00
03
0079
                                                                      CMPB
                                                                      BNEQU
                                                                               FORM_CONDSX
                                                                                                             ; YES -- SUBROUTINE IS FINISHED
                                                                      BRW
                                                                    EF 00000204'EF 00000000'EF 00
                                         DE
DO
90
      00000000'EF
    00000000'EF
                                         30
91
13
                 00000258'EF
0000025D'EF45
00000000'EF 04
      00000000'EF
                                         DE
                                         00
90
    0000000°EF
                                         30
91
13
                                FD97
      00000000'EF
                                         DE
DO
90
                       000002B6'EF
    00000000'EF
                    000002B6'EF46
                 00000000'EF
                                         30
                                              0280
                                FD71
                                                           FORM_CONDSX:
                                         05
                                              028F
                                                                                                             : RETURN TO CALLER
```

VC

.SBTTL VERIFY

FUNCTIONAL DESCRIPTION:

VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2.3.4.5.6 FOR COND TABLES 1,2,3,4.5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE (\$ASCEFC). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN ERR\_EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY, THROUGH THE SS\_CHECK MACRO); ERR\_EXIT SETS EFLAG TO NON-ZERO, PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER. WHEN ERR\_EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED, AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.

CALLING SEQUENCE:

BSBW VERIFY

INPUT PARAMETERS:

NONE

IMPLICIT INPUTS:

R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES

FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX

TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE

ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM

FOR CONDX\_E.

**OUTPUT PARAMETERS:** 

NONE

IMPLICIT OUTPUTS:

VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS, IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA AN ERR\_EXIT OR SS\_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED ERRORS.

COMPLETION CODES:

EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.

SIDE EFFECTS:

SS\_CHECK AND ERR\_EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.

SATSSS50 V04-000	SAT	S SYSTEM SE	ERVICE TES	TS SASC	E 15 EFC (SUCC 16-SEP-1984 5-SEP-1984	00:56:45 04:32:01	VAX/VMS Macro [UETPSY.SRC]S/	V04-00 Page 13 ATSSS50.MAR;1 (1)
		0290 44 0290 44	7 :					
00000000'E	13	0290 45 0290 45 0290 45 0296 45 0298 45	VERIFY:  50 VERIFY: 55 55 56 57 58 56 57 58 57 58 58 58 58 58 58 58 58 58 58 58 58 58	TSTB BEQL BSBW	CFLAG 5\$ FORM_CONDS	; SHO ; NO ; YES	ULD CONDITIONS E CONTINUE FMT & PRINT	BE PRINTED ? ALL CONDS FOR THIS T.C.
00000119'E! 0000010C'E! 53 00	D5 13 D1 12	029B 45 02A1 45 02A7 45 02A9 45 02AB 46 02B0 46 02B0 46 02BD 46	56 57 58 59 50 51	CLRB CLRB TSTL BEQL CMPL BNEQ INCB MOVAL	FLAGS ASCTOT R3 11\$ #1,R3 7\$	; CLE ; EV ; NO ; YES	AR REFERENCE CNI FLAG GROUP HAVE CONTINUE PRIOR ASSOCI	FOR NEXT TEST CASE I FOR (SUBJECT) CLUST A PRIOR ASSOCIATION ?  IATION WITH CLUSTER A ? IER B
57 0000010C'Ĕ!	96 DE 11	02B0 46 02B6 46 02BD 46	52 53 54	INCB MOVAL BRB	ASCTOT CLUS_NAME_A,R7 9\$	; YES	INCR REF COU AND SET UP CLUS ISSUE PRELIMINAR	TER B UNT FOR CLUSTER A STER NAME FOR ASCEFC RY SERVICE
57 00000079'E	DE	02BF 46	55 7 <b>\$</b> :	MOVA	_US_NAME_B,R7	; SET	UP CLUSTER NAME	FOR ASCEFC
5A 000002AE'EF4	DO	02C6 46 02CE 46	67 9 <b>\$</b> : 68 69	MOVL SASCERC	EFN[R5],R10 S EFN=R10, NAME=(R7)	, PERM=PE	MUST BE IN R10	FOR LATER CALL
57 00000065 88 000000000 067 000000000 062	D1 12 30 95 13	02CE 46 02E2 47 0310 47 0317 47 0319 47 0310 47 0322 47 0324 47 0327 47	70 71 72 73 74 75	SS CHEC CMPL BNEQU BSBW TSTB BEQL BRW	EFN[R5],R10 S EFN=R10, NAME=(R7) R NORMAL #CLUS_NAME_A,R7 11\$ BUILD_CLUST EFLAG 11\$ VERIFYX	CHE DID NO BUI IS NO YES	CK SERVICE COMPL WE ASSOCIATE CL SKIP BUILDING LD CLUSTER A AN ERROR BEING F CONTINUE RETURN IMMED	
00000255'EF44 0000010C'E	95	0333 0334 47	79	SUBB3	ASCTOT, COND3_E[R4],R	; ANY	ASCEFC'S TO ISS	SUE ?
00E	12 31	0336 48 0338 48	30	BNEQU BRW	14\$ 25\$	; NO	CONTINUE GO ISSUE SUB.	JECT ASCEFC
5000	D4 D5 12 D6	033B 48 033B 48 033D 48 033F 48 0341 48 0343 48	32 14\$: 33 34 35 36 37 16\$:	CLRL TSTL BNEQU INCL	R8 R5 16\$ R8	: ASSI : FIR : NO : YES	UME SECOND COND ST COND 4 ELEMEN IT'S SECOND C USE R8 AS IN	4 ELEMENT NT ? COND 4 ELEMENT NDEX TO 2ND ELEMENT
5A 000002AE'EF48 0000010D'EF 57 00 00000119'EF 00	E2	0343 48 0348 48 0352 49 035A 49	88 89 90 91	MOVL MOVL BBSS SASCEFC	EFN[R8],R10 R10,OTHER_EFN #FLG_V_CLAOTHEV,FLAG S EFN=R10, NAME=CLUS	GET SAV S.+1 : I	EFN OF 'OTHER' E EFN OF 'OTHER' NDICATE A LATER PERM=PERM[R2]	EV FLAG GROUP 'GROUP SDACEFC IS NEEDED FLAG GROUP WITH CLUST A DMPLETION PROCESSED ?
00000000°E	13	0372 49 03A0 49 03A3 49 03A9 49 03AB 49	97	BRW	VERIFYX	; YES	RETURN IMMED	DIATELY
57 07 60 00 00000119'EF 0	91 12 E2	03A9 49 03AB 49 03AE 49 03AE 49 03B1 50 03B3 50	00 00 01 02	CMPB BNEQU BBSS \$CREPRC	#2,R7 25\$ #FLG_V_CLAPROC,FLAGS _S PRCNAM=CREPRN, IMAGE	: MUS : NO +1 : IN GE=IMAGNA	T WE DO ANOTHER GO ISSUE SUBJ DICATE A LATER S M, -	ASCEFC ? JECT ASCEFC BDACEFC IS NEEDED

```
SATS SYSTEM SERVICE TESTS $ASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 5-SEP-1984 04:32:01 LUETPSY.SRCJSATSSS50.MAR;1
SATSSS50
V04-000
                                                                                           MBXUNT=MBXUNIT, QUOTA=QUOTALIST
                                                                                                                           ISSUE ASCEFC IN A CREATED PROCESS
CHECK COMPLETION OF CREPRC
SLEEP UNTIL CREATED PROCESS DOES $ASCEFC
                                                                             SS_CHECK NORMAL
SHIBER_S
                                                                  25$:
                                                                     ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
                                                                             $ASCEFC_S EFN=EFN[R5], -
                                                                                           NAME=CLUS NAME_A, -
PERM=PERMER2]
                   00000000°8F
                                                                                                                            CODE RECEIVED = CODE EXPECTED ?
                                                                                         RO, #SS$_NORMAL
                                                                             BEQLU
                                                                                                                            YES -- CONTINUE
                                                                                        #SS$ NORMAL, EXPV
RO, RECV
                                                             516
                                                                                                                            LOAD UP EXPECTED AND ... RECEIVED VALUES, THEN EXIT
       00000000'EF
                          00000000'8F
                                             DO
                                                                             MOVL
                                              DÖ
                   00000000'EF
                                                                             MOVL
                                                             518
519
                                                                             ERR_EXIT LONG, < INCORRECT STATUS CODE RETURNED FROM ASCEFC>
                                                                  30$:
                                                             520
521
523
523
523
525
525
                                                                       ENSURE THAT SETEF'S CAN BE PROPERLY ISSUED ON CLUSTER A
                                                                         BY SETTING THE TWO HI-ORDER FLAGS OF THE CLUSTER (I.E., 94-95 OR 126-127).
                       000002AE'EF45
                                                                                        EFN[R5],R7
                                                                                                                            GET FIRST EVENT FLAG OF CLUSTER INTO REG
                                                                                                                            COMPUTE 2ND-TO-HIGHEST EV FLAG NO. ATTEMPT TO SET FLAG IN CLUSTER A
                                              CO
                                                                              ADDL2
                                                                                     #30.R7
                                      1E
                                                   04B
                                                   04B4
                                                                              SSETEF S EFN=R7
                                                                             SS CHECK WASCLE
                                                                                                                            FLAG SHOULD HAVE BEEN CLEAR (FROM ASCEFC)
POINT REG 7 TO HIGHEST EV FLAG IN CLUSTER
                                                             529
530
531
                                       57
                                              06
                                                                                                                            SET ANOTHER FLAG FOR GOOD MEASURE
                                                                              SSETEF S EFN=R7
                                                                             SS_CHECK WASCLE
                                                                                                                            CHECK FOR PRIOR CLEAR CONDITION
                                                                        SET UP REG 7 TO CONTAIN THE MASK OF EXPECTED EVENT FLAG SETTINGS
                                                                                        #FLG_V_MKFORMED, FLAGS, 40$; BRANCH IF CLUS_MASK FORMED
                                       02
57
07
                                             E0
04
11
               04 00000119'EF
                                                                                                                          : SUBJECT ASCEFC GETS NEW CLUSTER: 0 MASK
: GO SET 2 MORE MASK BITS (FOR SETEF'S ABOVE
                                                                             CLRL
                                                                                        45$
                                                                             BRB
                                                             538
539
540
541
                                                                  405:
                                                                             MOVL
                          00000111'EF
                                              DO
                                                                                        CLUS_MASK,R7
                                                                                                                          : USE EXISTING CLUS_MASK
                                                                  45$:
                                                                             INSV # B11, #30, #2, R7 ; TURN C
SREADEF_S EFN=EFNER51, STATE=CLUS_STATE
                                                                                                                            TURN ON 2 HI-ORDER MASK BITS FOR SETEF'S
                  57
                                      03
                                             FO
                         02
                               1E
                                                                                                                            READ CURRENT STATE OF CLUSTER A
                                                                                                                            CONTINUE IF NORMAL COMPLETION
                                   2E 50
                                             E8
                                                                                        RO,50$
                                                                             BLBS
                                                                             SS_CHECK NORMAL
                                                             USE SS_CHECK TO TERMINATE TEST MODULE
                                                                  50$:
                                                                             CMPL CLUS_STATE,R7 ; IS CLUSTER A STATE = THAT EXPECTED ?

BEQLU 55$ ; YES -- CONTINUE WITH VERIFICATION

MOVL R7.EXPV ; NO -- LOAD EXPECTED AND ...

MOVL CLUS_STATE,RECV ; RECEIVED VALUES, THEN EXIT

ERR_EXIT LONG,<PRE-EXISTING CLUSTER STATE NOT OBTAINED AFTER ASCEFC>
                          00000115'EF
                                             DO
                    00000000 EF
                          00000115'EF
       00000000'EF
                                                                  55$:
                                                                           TO VERIFY THE ASCEFC REFERENCE COUNT, THE FOLLOWING CODE
                                                                              ISSUES A DACEFC FOR EACH ASCEFC ISSUED BY THIS TEST CASE.
                                                                             SDACEFC S EFN=EFN[R5]
SS_CHECK NORMAL
                                                                                                                         : DISASSOCIATE SUBJECT ASCEFC
: MAKE SURE IT COMPLETED OK
                                                                  60$:
```

100	SATSSS50 704-000			SATS	SYSTEM	SERVIC	E TESTS SASC	CEFC (SUCC	16-SEP-1984 5-SEP-1984	00:56:4 04:32:0	5 VAX/VMS 1 CUETPSY	Macro VO4-00 SRC]SATSSS50	.MAR;1	age 15
		A 00000119'EF	00	E4 E4 11	0631 0639 0639 0641 0643	560 561 562 563 564 62	BBSC BBSC BRB	#FLG_V_C	LAPROC, FLAGS, LAOTHEV, FLAGS	6,63\$ HA		PROCESS ISSU HER DACEFC IF EAR; REF COUN		IF NEC.
			0179 020D	31	0646 0646 0649 0649	566 63 567 568 64 569 ;	S: BRW	80\$ 85\$		; NE	ED A WORD	S WORTH OF BR		
			2E 50	E8	0649 0649 0649 0661 068F 06A3 06A6	570 ; 571 ; 572 ; 573 ; 574 ; 575 ;			C REFERENCE OF TO CHECK PER NERS], NAME=O				E TION	
		00000130	'EF42 02 57	D5 12 D4	0604 0604 060B 060D 060F	577 578 65 579 580 581 582 70	TSTL BNEQU CLRL	PERM[R2] 70\$ R7		: 15	THIS A PE	RMANENT CLUST EXPECTED STAT A ZERO CLUST	ER ?	
	0000000	57 000001 000000000'EF 0'EF 000001	5D 57	D1 13 D0 D0	06DF 06E6 06E8 06EF 06FA	583 584 585 586 587	CMPL BEQLU MOVL MOVL ERR_EX	CLUS_STA 71\$ R7,EXPV CLUS_STA IT LONG, <i< td=""><td>TE,RECV NCORRECT CLUS</td><td>; CL ; YE ; NO STER STA</td><td>USTER A ST. S GO FI  LOAD E . RECEIVED TE AFTER D</td><td>ATE = THAT EX NISH UP XPECTED AND . VALUES, THEN ACEFC'S&gt;</td><td>PECTED ?</td><td></td></i<>	TE,RECV NCORRECT CLUS	; CL ; YE ; NO STER STA	USTER A ST. S GO FI LOAD E . RECEIVED TE AFTER D	ATE = THAT EX NISH UP XPECTED AND . VALUES, THEN ACEFC'S>	PECTED ?	
			018D	31	0745 0745 0752 0780 078E 07BC	588 71 589 590 591 592 593	SDLCEFO SS_CHEO SDACEFO		LUS_NAME_A	: CL	EAR PERM I PECT NORMA . AND DISA	NDICATOR IF P	PRESENT	

SATSSS50 V04-000	SATS	SYSTEM	SERVICE	TESTS \$ASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 5-SEP-1984 04:32:01 [UETPSY.SRC]SATSSS50.M	Page 16 (1)
		07BF 07BF 07CE 07FC	595 80\$ 596 597 598 599 600 601 602 85\$ 604 605 606 607 608 86\$	SWAKE S PRCNAM=CREPRN ; WAKE CREATED PROCESS TO GET SS_CHECK NORMAL ; CHECK FOR NORMAL STATUS COD SQIOW_S CHAN=MBXCHAN, FUNC=#IO\$ READVBLK, - P1=MBXBUFF+8, P2=MBXBUFF	DACEFC ISSUED
FDDB	31	0825 0825 0853 0856	600 601 602 603 85\$	SS CHECK NORMAL : CHECK FOR NORMAL STATUS COD BRW 60\$ : GO CHECK FOR MORE DACEFC'S	E MAIL
2E 50	E8	0856 0869 0869 0860	604 605 606 607	\$READEF_S EFN=OTHER_EFN, STATE=CLUS_STATE  ; READ & CHECK CLUSTER BEFORE  BLBS RO,86\$; CONTINUE IF NORMAL COMPLETI  SS_CHECK NORMAL; USE SS_CHECK TO TERMINATE T	DACEFC ON EST MODULE
57 00000115'EF 6B 00000000'EF 57 00000000'EF 00000115'EF	D1 13 D0 D0	089A 089A 08A1 08A3 08AA 08B5	608 86\$ 609 610 611	CMPL CLUS_STATE,R7 ; CLUSTER A STATE = THAT EXPE BEQLU 87\$ ; YES GO DISASSOCIATE MOVL R7,EXPV ; NO LOAD EXPECTED AND MOVL CLUS_STATE,RECV ; RECEIVED VALUES, THEN E ERR_EXIT LONG, <pre-existing after<="" cluster="" not="" obtained="" state="" td=""><td></td></pre-existing>	
00000000'EF 00000115'EF	00	0885 090E 090E	613 614 87\$ 615 616	사람들은 1000 HONG HONG HONG HONG HONG HONG HONG HONG	
FCE5	31 05	0949 0940 0940	617	\$DACEFC_S EFN=OTHER_EFN SS_CHECK_NORMAL BRW 60\$; CHECK_FOR_NORMAL_COMPLETION GO CHECK_FOR_MORE FLAGS  IFYX: RSB ; RETURN TO CALLER	

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SATSSS50
V04-000
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```
SATS SYSTEM SERVICE TESTS $ASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 VFY_CLEANUP 5-SEP-1984 04:32:01 [UETPSY.SRC]SATSSS50.MAR;1
                                                        .SBTTL VFY_CLEANUP
                                         FUNCTIONAL DESCRIPTION:
                                         VFY CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY CLEANUP MUST ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN ERROR IS FOUND). ALSO, VFY CLEANUP MAY ISSUE SS CHECK OR ERREXIT ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED IN THE EVENT THAT VFY CLEANUP IS CALLED DURING ERROR PROCESSING, WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN POSSIBLY DISCOVERING A SECOND ERROR.
                                          CALLING SEQUENCE:
                                                        BSBW VFY_CLEANUP
                                          INPUT PARAMETERS:
                                                        NONE
                                          IMPLICIT INPUTS:
                                                       R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES

FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX

TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE

ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM

FOR CONDX E.
                                          OUTPUT PARAMETERS:
                                                        NONE
                                          IMPLICIT OUTPUTS:
                                                        NONE
                                          COMPLETION CODES:
                            660
                                                        EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
                                          SIDE EFFECTS:
                                                         SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.
                                     VFY_CLEANUP::
                                                        SDLCEFC_S NAME=CLUS_NAME_A
SDLCEFC_S NAME=CLUS_NAME_B
SS_CHECK NORMAL
RSB
                                                                                                                                   : CLEAR PERM INDICATORS IF PRESENT ...

: ... FOR BOTH CLUSTERS

: CHECK COMPLETION
                                                                                                                                    : RETURN TO CALLER
```

VC

```
SATS SYSTEM SERVICE TESTS $ASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 BUILD_CLUST SUBROUTINE 5-SEP-1984 04:32:01 [UETPSY.SRC]SATSSS50.MAR;1
                                                                           .SBTTL BUILD_CLUST SUBROUTINE
                                                                          BUILD_CLUST SUBROUTINE
                                                                          THIS SUBROUTINE CREATES A 32-BIT CLUSTER MASK BY CONCATENATING THE LOW-ORDER BYTES OF REGS R2-R5. IT THEN SETS CLUSTER A EQUAL TO THE MASK BY ISSUING THE PROPER COMBINATION OF 32 SETEF/CLREF'S.
                                                                          INPUTS:
                                                                                       R2,R3,R4,R5
                                                                                                            - CONDITION TABLE INDEX VALUES
                                                                                       R10
                                                                                                                    ANY EFN IN CLUSTER A
                                                                          OUTPUTS:
                                                                                                                   LONGWORD CONTAINING THE CREATED
                                                                                       CLUS_MASK
                                                                                                                       CLUSTER MASK.
                                                                                                                   THE SUBJECT EVENT FLAG CLUSTER, UPDATED TO LOOK LIKE CLUS_MASK.
                                                                                       CLUSTER A
                                                                                       FLG_V_MKFORMED - BIT IN FLAGS BYTE IS SET, IND-
                                                                                                                       ICATING CLUS_MASK IS FORMED.
                                                                          VOLATILE REGISTERS:
                                                                                       RO, R1, R8, R9
                                                                                             ***************************
                                                             BUILD_CLUST:
                                                      714
715
716
                                                                                       #FLG_V_MKFORMED, FLAGS, 10$; CONT IF CLUS_MASK NOT YET FORMED BUILD_CLUSTX; MASK ALREADY FORMED; JUST EXIT
                        02
00A5
03 00000119'EF
                                    E3
                                                                          BBCS
                                                                          BRW
                                                             105:
     00000111'EF
00000112'EF
00000113'EF
00000114'EF
                                    90
90
90
90
                                                                                       R5,CLUS_MASK
R4,CLUS_MASK+1
R3,CLUS_MASK+2
R2,CLUS_MASK+3
                                                                          MOVB
                                                                                                                                  BUILD
                                                                          MOVB
                                                                                                                               : .. CLUSTER
                                                                          MOVB
                                                                                                                               : ..... MASK
                                                                          MOVB
                                                      721
722
723
724
725
726
727
731
733
733
735
                                                                THE FOLLOWING CODE SETS CLUSTER A EQUAL TO CLUS_MASK
                            5A
                                    D0
                                                                                                                               : ESTABLISH FIRST EFN (EVENT FLAG NO.)
: INIT OFFSET INTO CLUS_MASK
                    58
                                                                          MOVL
                                                                                       R10,R8
                                                                          CLRL
                                                                                        R9
                                                             20$:
                                                                                                                               : ISSUE $SETEF IF BIT FOR THIS FLAG IS SET

: ... OTHERWISE, ISSUE $CLREF

: IF NORMAL STATUS, PROCESS NEXT EVENT FLAG

: USE SS_CHECK TO TERMINATE TEST MODULE
                                                                          BBS R9, CLUS_MASK, 30$
$CLREF_S EFN=R8
BLBS R0, 40$
3A 00000111'EF
                            59
                                    E0
                       68 50
                                    E8
                                                                           SS_CHECK NORMAL
                                                             30$:
                                                                          SSETEF_S EFN=R8
BLBS RO.40$
SS_CHECK NORMAL
                                                                                                                              : SET CURRENT EVENT FLAG
: IF NORMAL STATUS, PROCESS NEXT EVENT FLAG
: USE SS_CHECK TO TERMINATE TEST MODULE
                       2E 50
                                    E8
                                           OA3E
                                                             40$:
```

SATS SYSTEM SERVICE TESTS \$ASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 Page 19 BUILD\_CLUST SUBROUTINE 5-SEP-1984 04:32:01 [UETPSY.SRC]SATSSS50.MAR;1 (1) 736 737 738 BUILD\_CLUSTX: 739 740 .END R8 #31,#1,R9,20\$ 86 90 FF7C 59 01 1F GET NEXT EFN : GO DO NEXT EVENT FLAG

SATSSS50 V04-000

; RETURN TO CALLER

SATSSS50 Symbol table	SATS SYSTEM SERVICE TESTS SASCEFC (SUCC 16-	SEP-1984 00:56:45 VAX/VMS Macro V04-00 SEP-1984 04:32:01 TUETPSY.SRCJSATSSS50.MAR;1	Page 20 (1)
\$\$\$\$CHARS \$\$\$CHARS2 \$\$\$CHARS2 \$\$\$CHARS3 \$\$\$CHARS4 \$\$\$CHARS5 \$\$\$CHARS5 \$\$\$SCOND A \$\$\$STRINGS \$\$\$STRINGS2 \$\$\$T1 \$\$T2 ASCTOT BUILD_CLUST BUILD_CLUSTX BYTE CFLAG CHMRTN CHM_CONT CLUS_MASK CLUS_NAME_B CLUS_STATE COMP_SC COND1 COND1_CLEANUP COND1_C COND1_T COND1_T COND1_T COND1_T COND1_T COND2_C COND2_CLEANUP COND2_E COND2_TAB COND2_T COND2_TAB COND3_C COND3_C COND3_C COND3_C COND3_C COND3_C COND3_C COND3_T COND3_T COND3_T COND3_T COND3_T COND3_T COND3_T COND3_T COND4_T COND4_T COND4_T COND4_T COND4_T COND4_T COND5_C C COND5_C C COND5_C C COND5_C C C C C C C C C C C C C C C C C C C	= 000008BF R	00000286 R 03 00000286 R 03 00000051 R 02 00000074 000000074 000000028 R 03 00000000 00000001 B 00 0000008 R 03 00000008 R 03	

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SI
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SATSSS50 Symbol table	SATS SYSTEM SERVICE TESTS \$ASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 Page 2 5-SEP-1984 04:32:01 [UETPSY.SRC]SATSSS50.MAR;1
SS\$_WASCLR SUCCESS SYS\$ASCEFC SYS\$CREFF SYS\$CREMBX SYS\$CREPRC SYS\$DACEFC SYS\$DLMBX SYS\$DLCEFC SYS\$PAO SYS\$FAO SYS\$FAO SYS\$FADEF SYS\$SETE	******* X 04 ******* X 04 *******
	! Psect synopsis !
PSECT name  . ABS . \$ABS\$ RODATA RWDATA SATSSS50	Allocation
	! Performance indicators !
Phase Initialization Command processing Pass 1 Symbol table sort Pass 2 Symbol table output	Page faults

SATSSS50 VAX-11 Macro Run Statistics SATS SYSTEM SERVICE TESTS \$ASCEFC (SUCC 16-SEP-1984 00:56:45 VAX/VMS Macro V04-00 Page 22 (1)

The working set limit was 1500 pages.
52689 bytes (103 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 370 non-local and 89 local symbols.
740 source lines were read in Pass 1, producing 30 object records in Pass 2.
51 pages of virtual memory were used to define 41 macros.

Macro library statistics !

Macro library name

\$255\$DUA28:[SHRLIB]UETP.MLB;1

\$255\$DUA28:[SYS.OBJ]LIB.MLB;1

\$255\$DUA28:[SYSLIB]STARLET.MLB;2

TOTALS (all libraries)

Macros defined

10

227

707ALS (all libraries)

778 GETS were required to define 38 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS50/OBJ=OBJ\$:SATSSS50 MSRC\$:SATSSS50/UPDATE=(ENH\$:SATSSS50)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

0423 AH-BT13A-SE

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